

Title (en)

DEVICE AND METHOD FOR INSPECTING SCRATCH ON CELL EXTERNAL CASE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR INSPEKTION VON KRATZERN AUF ÄUSSEREM ZELLENGEHÄUSE

Title (fr)

DISPOSITIF ET PROCEDE POUR INSPECTER UNE RAYURE SUR UN BOITIER EXTERNE DE CELLULE

Publication

EP 1806577 A4 20130529 (EN)

Application

EP 05805287 A 20051025

Priority

- JP 2005019629 W 20051025
- JP 2004313824 A 20041028

Abstract (en)

[origin: EP1806577A1] It is possible to accurately and stably inspect a scratch in the vicinity of a surface of a cell external case formed by a cylindrical copper plate by using a simple device. The cell external case (1) is rotated around the center axis of the cylindrical shape by a rotation device (2) and a magnetic flux is applied to the rotating cell external case from both ends of a frame (4). When a scratch is present on the cell external case (1), leak magnetic flux is generated which is detected by a magnetic sensor (6) arranged in the vicinity of the cell external case (1) and displayed on a display device (12) via a signal processing device (11). Since the cylindrical cell external case (1) rotates around its center axis, the distance between its surface and the magnetic sensor (6) is not changed and a scratch can be detected stably.

IPC 8 full level

G01N 27/83 (2006.01); **G01N 27/90** (2006.01); **H01M 6/50** (2006.01); **H01M 10/42** (2006.01); **H01M 50/107** (2021.01)

CPC (source: EP US)

G01N 27/9026 (2013.01 - EP US); **H01M 6/50** (2013.01 - EP US); **H01M 10/42** (2013.01 - EP US); **H01M 50/107** (2021.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

- [X1] US 4602212 A 19860722 - HIROSHIMA TATSUO [JP], et al
- [X1] US 3710236 A 19730109 - HALSEY H, et al
- [I] US 5279160 A 19940118 - KOCH ROMAN [DE]
- See references of WO 2006046578A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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EP 05805287 A 20051025; CN 200580035107 A 20051025; JP 2005019629 W 20051025; KR 20077006831 A 20070326; US 71831905 A 20051025